



Peg Acrylate New York

Creative PEGWorks is a small biotechnology company located in North Carolina with a core business to supply advanced functional polymer products. We manufacture and distribute polyethylene glycol, polysaccharide, and polyamino acid derivatives and reagents for research at universities, federal laboratories, biotech and pharmaceutical companies. We also offer PEGylated, glycosylated, lipidated and dye-labeled biodegradable polymers and their activated derivatives that are reactive toward biologics, nanoparticles, surfaces, microspheres, self-assemblies, and small molecules. We specialize in PEGylation, polymer modification, particle surface functionalization, and custom synthesis of reactive oligomers and polymers with a broad range of molecular weights.

Creative PEGWorks is ready to help keep your projects on track with our high quality products and technical services.

Creative PEGWorks provide high quality PEG products with low polydispersity, high reactivity and high purity. Creative PEGWorks' PEG products include structurally and functionally diversified derivatives of linear, branched, crosslinking, and multi-arm polyethylene glycol with a broad range of molecular weight from ~100 (oligomers) to 40,000 Dalton. PEG reagents with functional groups and molecular weight not listed may be offered through custom synthesis.

Natural polysaccharides and carbohydrates are widely used in drug delivery, tissue engineering, regenerative medicine, pharmaceutical and cosmetic research and product development. Creative PEGWorks provides customers with selections of functionalized polysaccharides, including hyaluronic acid, heparin, chondroitin sulfate, chitosan, dextran, alginate, cellulose and xylan. We also provide custom synthesis for polysaccharide derivatives not listed. Our polysaccharide products are for laboratory research testing only.

Creative PEGWorks provide high quality block or graft copolymers made of polyethylene glycol (PEG) or polyethylene oxide (PEO) and biodegradable polymers, natural polymers, or biopolymers. PEGylated biopolymers include carbohydrates, hyaluronic acid, polyamino acid and others. PEGylated biodegradable polymers can be used for drug delivery with controlled release, microencapsulation, drug solubility enhancement and other biomedical applications including implants, tissue scaffolding, films and others. Biodegradable polyesters including those made of caprolactones have been approved for clinical uses. We provide diblock (A-B) and triblock (A-B-A) copolymers of PEG with PLA (polylactic acid or polylactide), PLGA (polylactic acid-co-glycolic acid or polylactide-co-glycolide), and PCL (polycaprolactone). We also offer custom synthesis services for PEGylated copolymers with other biodegradable blocks of various molecular weights, and with reactive functional groups.

Creative PEGWorks provide cost-effective custom synthesis and technical service with fast turnaround time and high quality. Final products and intermediates are adequately purified and characterized. Our knowledge, skill and ability will keep your projects on track and provide enhanced value proposition.

Custom synthesis of functional polymers

We can custom design and synthesize functional polymer derivatives including polysaccharide, polyamino acid, polyethylene glycol, polyester, and glycosylated and PEGylated biodegradable polymers.

Custom synthesis of small molecules

We can design and synthesize novel organic molecules, API intermediates, stereoisomers, specialty amino acid derivatives, and oligomers.

Surface functionalization service

We can provide customized surface modification of nanoparticles, microspheres, microchips, thin films and membranes, self-assembled monolayers, quantum dots, metal-organic framework, colloidal gold, silver nanowires, nanostructures, carbon nanotubes, graphenes, hydrogels, liposomes, and micelles with polymer surface coating or reactive functional groups.



Creative PEGWorks supplies a unique collection of biopolymers, including polyethylene glycol products, PEG derivatives, PEGylation reagents, functional polysaccharide derivatives, PEGylated biodegradable polymers, and fluorescent and biotinylated polymers. Creative PEGWorks provides custom synthesis and PEGylation services. We also provide consulting services for drug delivery, protein and nanoparticle functionalization.

Creative PEGWorks provides custom synthesis of monodispersed polyethylene glycol derivatives, as well as polydispersed PEG reagents with a variety of MWs. One special class of PEG reagents we provide is amphiphilic or amphipathic (surfactant-like) PEG (see example 2 below).

PEGylation and bioconjugation service

We can provide generic or site-specific PEGylation of proteins, antibodies, aptamers, DNAs, small molecules, dendrimers, nanoparticles, and biodegradable polymers. We also can provide post-translational polysaccharide modification of biologics, protein lipidation, bioconjugation and crosslinking chemistry.

Labeling service

We can provide labeling service with commercially available fluorescent dyes (visible and NIR), biotin and other optical and biological probes for small molecules, polymers (peptide, biologics, polysaccharide, PEG and block copolymers), nanoparticles, microspheres, and self-assemblies.

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PEGylation chemistry and PEG reagent selection guide- This document is intended to help select proper PEGylation reagents to achieve desired properties and applications.

Therapeutic Proteins: Strategies to Modulate Their Plasma Half-lives, Ed. Roland Kontermann, Wiley-Blackwell, 2012; Part Two, Page 41-56, Half-Life Extension Through PEGylation.

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